



# NEW: HD SERIES rubber doors

Tough 'n' Reliable for your challenging environments

**HÖRMANN**



# HD SERIES Rubber Doors

Building on a strong legacy





**TNR originates from the mining industry, so it's in our blood to design doors that can withstand the most demanding conditions**

Nearly two decades ago TNR Industrial Doors launched the HD SERIES rubber door design. Recognizing a gap in the marketplace for a heavy duty industrial door that was tough and reliable in even the harshest environments. TNR manufactures patented door system with superior performance and reliability. The industrial rubber door is a proven door solution for mining and heavy industry environments. TNR's HD SERIES doors are recognized as an effective solution for all troublesome door openings.

The fundamentals of the original HD SERIES design have been the key to TNR's success and have been carried forwarded into the updated design that TNR is now introducing.



**Exclusive limited lifetime warranty**

Our HD SERIES rubber curtain, Curtain Loks™ and NEWGEN® guides are so tough and reliable that they are warranted for the lifetime of the door.

# Designing custom rubber door solutions

A sound investment with unquestionable payback





## **Doorways in your operation are inevitable; it's what you put in them that makes a difference**

Each HD SERIES rubber door solution is custom built. TNR rubber doors' unique product capabilities have revolutionized the door industry by providing a more reliable, more durable, longer lasting performance with greater impactability. TNR doors will substantially reduce your long-term cost of ownership and provide the lowest life cycle cost available.

TNR provides the industry's most reliable and durable door systems. Depending on the application, the typical return on investment is 12-36 months, when considering the following criteria:

- Increased Productivity
- Energy Savings
- Maintenance Savings
- Minimized Downtime
- Energy Efficiency Rebates
- Enhanced Safety & Security

TNR will design and build a custom door for your application that takes aim at reducing your operating costs. We have a broad range of HD SERIES rubber door models that we will custom build to your needs and specifications for use in any of our key industry segments:

- Mining & Industrial
- Food & Beverage
- Parking & Automotive
- Logistics & Transportation



# Enhanced Features of the New HD SERIES

Easier installation, less maintenance, great reliability



# 1

**Galvanized mounting angles**



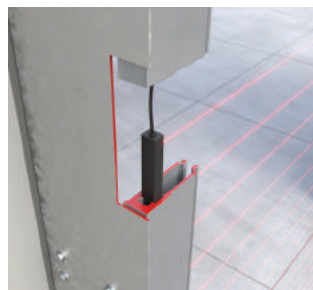
# 2

**NEWGEN® aluminum guides with integrated light curtain**

**Galvanized steel mounting angles are the backbone to the heavy duty rubber door.** The new HD SERIES door mounting angles are light and easy to install, and by clever design are effective in providing a strong backbone for our rubber doors.

**The patented NEWGEN® guide has been a key element of TNR's rubber door** rugged reliability in the past two decades. The extruded aluminum NEWGEN® guides ensure consistent curtain release when the door is impacted while significantly reducing reset time and cost since no guide gap maintenance is required.

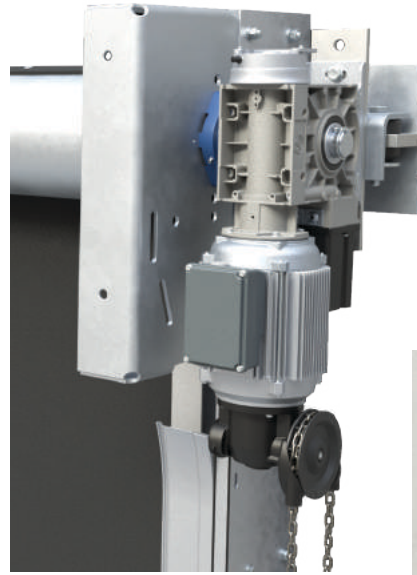
The aluminum guides include an integrated channel for our new 92 inch tall monitored light curtains. This ensures safe, consistent operation and protects the light curtains from damage.





### 3 Aluminum pivoting bottom bar for easy reset after an impact

TNR's patented pivoting aluminum bottom bar is featured on the full line of new HD SERIES doors providing innovative, aesthetically pleasing design and high-performance in all types of applications including high-wind applications without the need for a traditional wind bar.



### 4 Low maintenance drive system with variable frequency drive

Increasingly, end users are looking for the reliability and low maintenance that a direct drive system brings to high-performance doors.

The HD SERIES Direct Drive models now use standardized components across all TNR and Hörmann products with the Smart Start NXT control box and the most advanced GfA operators. This means easier set up and installation and greater familiarity for our dealers when installing, programming and troubleshooting with full support of the Hörmann Service Support App.



**Service Support App**  
TNR products now available  
Download on the App Store  
Get it on Google Play

# HD SERIES direct drive

Sophisticated controls, high-speed drive system



Model HD-DD 3065 in a rail transit maintenance facility







### Model HD-DD 3065

Direct drive system  
(hoods optional)

A springless direct drive system on a TNR rubber door provides a system that is simple to install, low maintenance and performs well in rugged environments where high-speed operation is a must.

Applications such as transit, airport and rail maintenance shops are ideal applications.

A variable frequency drive (VFD) provides soft start and soft stop, ensuring smooth operation and extended life of the mechanical system.

**HD SERIES Direct Drive models include two models that meet a wide range of needs and budgets: the HD-DD 3065 rubber door and the HD-HD 2565 hybrid door.**

The HD-DD 3065 offers the full heavy duty rubber door design for harsh, demanding environments. The HD-HD 2565 offers a hybrid alternative of a lighter rubber curtain or 88 oz fabric curtain. These provide speed and durability for less demanding environments while maintaining all the benefits of TNR's direct drive system.

### Typical Applications

Logistics & Transportation

Food & Beverage

### Warranty

The direct drive design enables us to include our 5 and 2 warranty, ensuring reliable and dependable operation with:

- 5 years or 1,000,000 cycles on operators with VFD
- 2 years on all other mechanical components
- 2 years on electrical components

# HD SERIES Chain drive

High-cycle springless, chain drive system



Model HD-CD 3025 in an underground parking application





## **Model HD-CD 3025**

Chain drive system

Eliminating the counterbalance springs makes these TNR rubber doors extremely reliable in very high-cycle environments. This high-speed, high-performance door system is particularly well suited for applications where high door speeds are required in openings that also experience very high traffic. Vehicle impacts are quickly reset keeping traffic flowing in these demanding applications.

The HD SERIES chain drive model HD-CD 3025 uses a high-performance helical gearhead operator and chain drive to open the door at up to 24 inches per second. This drive system is controlled by a programmable PLC and VFD **with soft start and soft stop that provides smooth, quiet operation, reduced wear-and-tear and long life.** The versatile PLC controller allows for easy addition of a wide range of activation and safety devices often required in high traffic door applications.

### **Typical Applications**

Parking & Automotive

Logistics & Transportation



### **Warranty**

The chain drive springless design enables us to include our 5 and 2 warranty, ensuring reliable and dependable operation with:

- 5 years or 1,000,000 cycles on operators with VFD
- 2 years on all other mechanical components
- 2 years on electrical components

Refer to the table on page 14 for detailed product features and specifications of the HD-CD 3025.

# HD SERIES Chain drive sprung

High-speed, spring counterbalanced, chain drive system



**Model HD-SD 3050** in a manufacturing plant



**Model HD-SD 3020** in a vehicle service bay





### **Model HD-SD 3050**

High-speed, chain drive, sprung drive system



TNR rubber doors with chain drive and spring counterbalance outperform all other door systems in the most rugged and abusive environments. The typically harsh environments of heavy industrial applications are where these extremely reliable doors are most valuable. These industries often require large doorways to accommodate large equipment, where the HD SERIES is ideal to fill the void left by other high-performance doors.

A part of the HD SERIES chain drive, sprung models is the high-speed HD-SD 3050 model which is equipped with a high-performance helical gearhead operator to open the door at up to 48 inches per second. The HD-SD 3020 Economy model gets the job done with a basic right-angle gearhead operator, opening the door at up to 18 inches per second.

The HD-SD 3050 operator is controlled by a custom programmable PLC with a variable frequency drive (VFD) in a NEMA 4 enclosure for precision control and durability. The HD-SD 3020 uses relay logic and contactors in a NEMA 1 operator mounted control box (OMC). Upgraded controller options are available for a wide range of applications covered by these versatile doors.

Both models are counterbalanced by standard springs rated for 100,000 or 50,000 cycles, depending on the size of the door. Upgrades for 200,000 cycles in higher traffic applications are available.

### **Typical Applications**

Mining & Industrial

Logistics & Transportation

### **Warranty**

The chain drive sprung design enables us to include our 5 and 2 warranty, ensuring reliable and dependable operation with:

- 5 years or 1,000,000 cycles on operators with VFD
- 2 years on all other operators and mechanical components
- 2 years on electrical components

Refer to the table on page 14 for detailed product features and specifications of the HD-SD 3050 and the HD-SD 3020.

# HD SERIES Equipment Features

## Heavy Duty, High-Performance doors

● = Standard ○ = Optional - = Unavailable

	HD-HD 2565 Hybrid	HD-DD 3065 Direct Drive	HD-CD 3025 Chain Drive	HD-SD 3020 Sprung Drive Economy	HD-SD 3050 Sprung Drive High-Speed
<b>Door type</b>					
<b>Suitable application</b>	Interior/exterior	Interior/exterior	Interior/exterior	Interior/exterior	Interior/exterior
<b>Size range</b>					
Maximum Opening Width (ft)	25	30   21	20   25   30	22   30	25   30
Maximum Opening Height (ft)	22	20   30	30   22   17	30   17	30   20
<b>Speed</b>					
Maximum Opening Speed (in/s)	up to 63	up to 64	up to 24	up to 18	up to 48
Maximum Closing Speed (in/s)	up to 29	up to 30	up to 12	up to 18	up to 32
<b>Headroom</b>					
Minimum Headroom, doors up to 17 ft high (in)	25-1/2	32-1/2	32-1/2	32-1/2	32-1/2
Minimum Headroom, doors over 17 ft high (in)	25-1/2	37	37	37	37
<b>Curtain Retention</b>					
NEWGEN® Guide and Curtain Loks™	●	●	●	●	●
Wind Load, door closed - 20 psf (958 Pa, 1.38 bar) or 88 mph (141 km/h)	●	●	●	●	●
Traveling Wind Bar, increased windload protection	○	○	○	○	○
Weighted Bottom Bar 15 lb/ft, increased windload protection	○	○	○	○	○
<b>Curtain</b>					
1/4 in (6 mm) thick SBR rubber (Black)		●	●	●	●
5/32 in (4 mm) thick SBR rubber (Black)	●	-	-	-	-
88 oz (2.5 mm) thick Vinyl fabric (Blue, Grey, Orange)	○	-	-	-	-
1/4 in (6 mm) thick EPDM rubber (Blue, Grey)	-	○	○	○	○
1/4 in (6 mm) thick MSHA self-extinguishing rubber (Black only)	-	○	○	○	○
Windows, 16 in x 16 in	○	○	○	○	○
<b>Curtain colours</b>					
Standard colours	●	●	●	●	●
Special colours	○	○	○	○	○
<b>Drive system</b>					
Direct Drive Operator, Springless	●	●	-	-	-
Chain Drive Operator, Springless	-	-	●	-	-
Chain Drive Operator, Counterbalance Springs, 50K cycles	-	-	-	●	●
Chain Drive Operator, Counterbalance Springs, 100K or 200K cycles	-	-	-	○	○
Power Supply, 3-phase 208 V to 575 V	●	●	●	●	●
Power Supply, 1-phase 208 V to 240 V	-	-	○	-	○
<b>Emergency opening</b>					
Chain hoist	●	●	●	●	●
Hand crank	○	○	-	-	-

### Standard colours rubber



RAL 9005 Jet black

### Special colours rubber



RAL 5017 Traffic blue



RAL 7037 Dusty grey

### Standard colours vinyl



RAL 5005 Signal blue



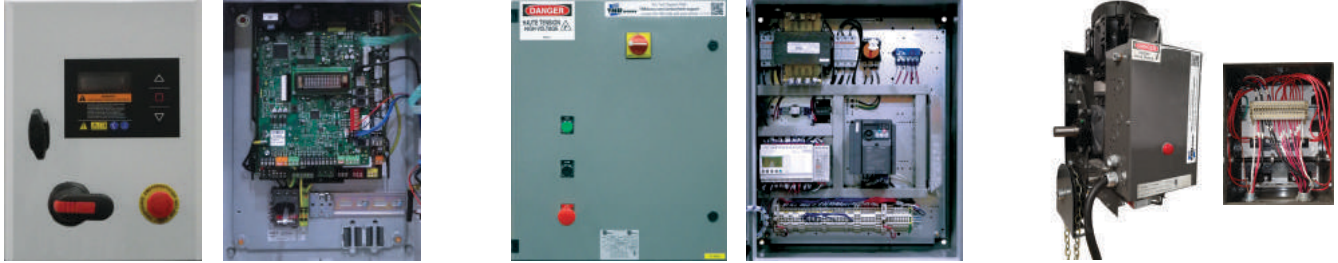
RAL 7011 Iron grey



RAL 2004 Pure orange

# Controls and Accessories

## For Heavy Duty, High-Performance doors



### Smart Start NXT

N4X (IP66) powder coated cabinet

#### Operation

Open / Stop / Close membrane push button, emergency-stop button, 4 x 7-segment display for information on door functions, lockable main switch, variable frequency drive

#### Function

Automatic timer to close, safety light curtain- stop and re-open

#### Options

Traffic light, flashing warning light, intermediate stop, Stainless steel cabinet N4X (IP66)

#### Wiring

3 phase, 208 V - 575 V, 60 Hz

Plug and play wiring between operator and control box

#### Housing dimensions

11 3/4 x 15 3/4 x 11 inch

### TNR PLC or Relay Logic

N4X (IP66) powder coated cabinet

#### Operation

Open / Close push button, emergency-stop button, variable frequency drive or contactors

#### Function

Automatic timer to close, safety light curtain - Stop and re-open

#### Options

Timer to close, Light Advance, N4 (IP66) or N4X (IP66)

#### Wiring

3 phase, 208 V - 575 V, 60 Hz with contactors or variable frequency drive  
1 phase, 208 V - 230 V, 60 Hz with variable frequency drive

#### Housing dimensions

20 x 24 x 10 1/2 inch

### Operator Mounted Controls

N1 (IP10), powder coated enclosure Controls integral to operator

#### Operation

Open / Stop / Close push button station included, contactors

#### Function

Safety light curtain - Stop and re-open

#### Options

Timer to close, Light Advance, N4 (IP66) or N4X (IP66)

#### Wiring

3 phase, 208 V - 575 V, 60 Hz

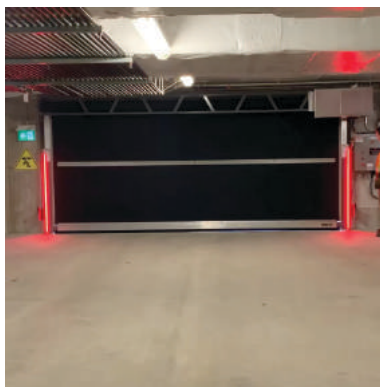
#### Housing dimensions

8 x 13 3/4 x 5 inch

### BEA IS40 Motion/Presence



### LED Lite-Advance



### Ground Loop Activation



**HIGH PERFORMANCE. HIGH SPEED. HIGH IMPACT.**



**We create solutions**

**TNR builds solutions where openings exist, with innovation and continuous improvement.**

As part of the Hörmann Group of companies, TNR Doors is an ISO certified company that is the industry leader in the manufacturing of custom built high-performance rubber doors.

Our dedicated team of professionals has nearly two decades of experience in engineering, application problem solving and project management.



**Hörmann High Performance Doors, Burgettstown, PA  
High Performance Doors**



**TNR Industrial Doors, Barrie, Ontario, Canada  
High Performance Doors**



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